AMENDMENTS TO THE SPECIFICATION

In the Specification:

Please replace the paragraph beginning on page 11, line 16 with the following rewritten paragraph:

--The NEXT measurements taken during the wake-up process are thus free of far signal and FEXT noise components and may be subsequently used to initialize the NEXT cancellation filters when beginning normal operation. Preferably, after the method of Fig. 2 is carried out, CO 10 and RT 12 configure their modems to a stable, agreed-upon, or otherwise predetermined rate (e.g. their minimum transmission rates) and re-establish a control channel. CO 10 then activates its NEXT canceller filters for one or more, and preferably all, of its modems and instructs RT 12 to likewise activate its NEXT canceller filters for one or more, and preferably all, of its modems. The NEXT cancellation filters then converge and begin canceling NEXT based on the NEXT transfer functions measured during wake-up. Preferred methods of NEXT cancellation are described in Assignee's U.S. Patent ~~Application~~ No. ~~09/643,821~~ 6,687,288 entitled Next Cancellation for Modem Pools and filed on August 22, 2000 hereby incorporated by reference in its entirety--

Please replace the paragraph beginning on page 12, line 12 with the following rewritten paragraph:

--Reference is now made to Fig. 4, which is a simplified flowchart illustration of a method of modem wake-up of the system of Fig. 1, operative in accordance with a preferred embodiment of the present invention. The method of Fig. 4 is substantially similar to the

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method of Fig. 2, (with reference numerals 400-422 replacing reference numerals 200-222),

with the notable exception that the target modem whose NEXT is being measured is set to

receive-only mode (steps 409 and 418) while one or more, and preferably all, other modems

are activated at their maximum transmission rate and maximum power (steps 410 and 419).

Setting one modem to receive-only and one or more, and preferably all, potential disturbers to

transmit ensures that only disturber NEXT is measured, and that the self-echo of the target

modem is eliminated as a noise component.--

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AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to Figs. 1 and 2. These sheets, which include Figs. 1 and 2, replace the original sheets including Figs. 1 and 2.

In Figure 1, the text label "Modem" was attached to boxes 10 and 12 and the text label "Next Canceller Filter" was attached to boxes 20 and 22.

In Figure 2, block 220, the text label "n RT distributer modems" was replaced with the text label "m RT distributer modems".

Attachment: Replacement Sheets